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|--|---|------------------------|-------------------|
| | | Application Number | 10/828,510 |
| | | Filing Date | April 19, 2004 |
| | | First Named Inventor | Stefan Zimmermann |
| | | Group Art Unit | 3736 |
| | | Examiner Name | Unassigned |
| Total Number of Pages in This Submission | 5 | Attorney Docket Number | 313S-300710US |

ENCLOSURES (check all that apply)

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| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Assignment Papers (for an Application) | <input type="checkbox"/> After Allowance Communication to Group |
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| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |
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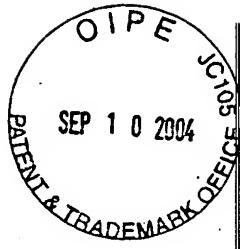
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

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| Firm or Individual name | Paul Littlepage, Reg. No. 48,581, Quine Intellectual Property Law Group, P.C. |
| Signature | |
| Date | September 7, 2004 |

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QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

By Deborah Berwick
Deborah Berwick

Attorney Docket No. 313S-300710US
Client Ref. No. B03-072-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Stefan Zimmermann, et al.

Examiner: Unassigned

Application No.: 10/828,510

Art Unit: 3736

Filed: April 19, 2004

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR § 1.97 and
§ 1.98

For: MONITORING METHOD AND/OR APPARATUS

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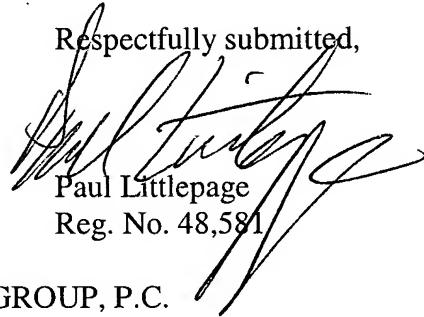
Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

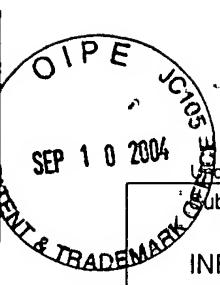
Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action on the merits per 37 CFR 1.97(b)(3). However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,


Paul Littlepage
Reg. No. 48,581

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | Complete if Known | |
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| | | Group Art Unit | 3736 |
| | | Examiner Name | Unassigned |
| | | Attorney Docket Number | 313S-300710US |
| | | Date Submitted | September 7, 2004 |

| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------|----------|----------------------|-------------------------|---|---|---|
| Examiner Initials | Cite No. | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal |
| | | Number | Kind Code (if known) | | | |
| | 01 | 6,091,976 | | Pfeiffer et al. | 07-18-2000 | |
| | 02 | 6,406,638 | | Stoeber et al. | 06-18-2002 | |
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| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|----------|--|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T |
| | 03 | BAKER et al. (1999) "Fluid mechanics analysis of a spring-loaded jet injector," <i>IEEE Transactions on Biomedical Engineering</i> , 46 (2), February 1999, pp. 235-242. | |
| | 04 | CHEYNE et al. (2002) "Making 'sense' of diabetes: using a continuous glucose sensor in clinical practice," <i>Diabetes Metab Res Rev</i> , 18 (Suppl. 1) pp. 543-548. | |
| | 05 | FRECKMANN et al. (2001) "Recent advances in continuous glucose monitoring," <i>Exp Clin Endocrinol Diabetes</i> , 109, Suppl 2: S347-S357. | |
| | 06 | FRECKMANN et al. (2002) "Measurement of the Postprandial Physiological Time Lag Between Whole Blood- and Subcutaneous Tissue Glucose Traces Following Meals in Type 1 Diabetic Patients," Poster-Number 553; <i>PS 37 Insulin Action, 38th EASD Annual Meeting</i> , Budapest, Hungary, 1-5 September 2002. | |
| | 07 | HOSS et al. (2001) "A Novel Method for Continuous Online Glucose Monitoring in Humans: The Comparative Microdialysis Technique," <i>Diabetes Technology & Therapeutics</i> , Vol. 3, No. 2, pp. 237-243. | |
| | 08 | ICHIMURA (1984) "A Convenient Photochemical Method to Immobilize Enzymes," <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , John Wiley & Sons, Vol. 22, pp. 2817-2828, (1984). | |
| | 09 | KALATZ et al. (2000) "Feedback-Regulation of Subcutaneous Insulin Infusion by Continuous Subcutaneous Glucose Measurement," <i>Acta Diabetol</i> 37:164 (abstract). | |
| | 10 | KENDALL et al. (2000) "Transdermal ballistic delivery of Micro-particles: Investigation into skin penetration," <i>Proceedings of the 22nd Annual EMBS International Conference</i> , July 23-28, Chicago, IL, USA, pp. 1621-1624, 2000. | |
| | 11 | LEE et al. (2000) " <i>In vivo</i> transdermal delivery using a shock tube," <i>Shock Waves</i> , 10, pp. 307-311, 2000. | |

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| Examiner Signature | Date Considered |
|--------------------|-----------------|

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|--|----|---|--|
| | 12 | LOPEZ (2002) "In situ fabricated microdialysis microchannels with biofouling prevention employing electrical methods," Thesis Proposal Draft, The Robotics Institute, Carnegie Mellon University, July 2002. | |
| | 13 | NGUYEN et al. (2002) "MEMS-Micropumps: A Review," <i>Journal of Fluids Engineering, Transactions of the ASME</i> , Vol. 124, pp. 384-392.. | |
| | 14 | PARANJAPE et al. (2002) "Dermal thermo-poration with a PDMS-based patch for transdermal biomolecular detection," <i>Technical Digest of the Solid-State Sensor, Actuator, and Microsystems Workshop 2002</i> , Hilton Head Island, SC, USA, June 2-6, pp. 73-76, 2002. | |
| | 15 | PFEIFFER et al. (2002) "A Novell Selfcalibrating Method for Continuous Online Determination of Subcutaneous Tissue Glucose, based on the Microdialysis Technique," Poster #98, <i>Second Annual Diabetes Technology Meeting</i> , October 31 - November 02, 2002, Atlanta, Georgia USA. | |
| | 16 | PFEIFFER et al. (2002) "A Mathematical Index of Short Term Time Courses of Continuous Glucose Traces," Poster-Number 861; <i>PS 68 Alternative Site Glucose Testing, 38th EASD Annual Meeting</i> , Budapest, Hungary, 1-5 September 2002. | |
| | 17 | PFEIFFER et al. (2002) "Increasing the linearity of enzyme-based amperometric glucose sensors by adding perfluorcarbon emulsions to the reaction," Poster #99, <i>Second Annual Diabetes Technology Meeting</i> , October 31 - November 02, 2002, Atlanta, Georgia, USA. | |
| | 18 | PITZER et al. (2001) "Detection of Hypoglycemia with the GlucoWatch Biographer", <i>Diabetes Care</i> , Vol. 24, No. 5, pp. 881-885. | |
| | 19 | XINGLONG et al. (2001) "Particle acceleration for delivery deoxyribonucleic acid vaccine into skin <i>in vivo</i> ," <i>Review of Scientific Instruments</i> , 72 (8), pp. 3390-3395, 2001. | |
| | 20 | ZAHN (2001) "Microfabricated Microneedles for Minimally Invasive Drug Delivery, Sampling and Analysis," Dissertation, Ph.D. Engineering-Bioengineering, UC Berkeley and UC San Francisco, Spring 2001. | |
| | 21 | ZAHN et al. (2000) "Microfabricated Microdialysis Microneedles for Continuous Medical Monitoring," <i>1st Annual International IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology</i> , October 12-14, 2000, Lyon, France. | |
| | 22 | ZAHN et al. (2001) "An Integrated Microfluidic Device for the Continuous Sampling and Analysis of Biological Fluids," <i>Proceedings of 2001 ASME International Mechanical Engineering Congress and Exposition</i> , November 11-16, New York, NY, USA. | |
| | 23 | ZAHN et al. (2001) "Continuous on-chip micropumping through a microneedle," <i>14th Annual IEEE International MEMS-01 Conference</i> , pp. 503-506 | |

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